

== USS O'BANNON (DD-987) ==
SEMAT I SHELL CONDITION ASSESSMENT
SURVEY
INTERIOR AREAS
11/10/01 TO 11/21/01



PREPARED BY
SUPERVISOR OF SHIPBUILDING CONVERSION
AND
REPAIR
PORTSMOUTH, VIRGINIA
11/26/01

28 November 2001
Serial # 1697 AY - 078


Q.E.D. Systems, Inc. was tasked by the Supervisor of Shipbuilding Conversion and Repair, USN (SPORT) Portsmouth, VA to conduct an Ultrasonic Thickness (U/T) Survey of specific locations on board USS O'BANNON (DD-987) during the period of 09 - 21 November 2001.

The survey was conducted by Francis J. (Joe) LaRock II, Certified Level 1 on 9 March 2001.

The instrument used was a Kraut Kramer Branson, Model DMS-2.

Serial Number:	00N3V8
Calibration Date:	22 February 2001
Probes Used:	TC 560 FH 2 E KBA 525

I have reviewed the results of the survey and approved of the findings. The discrepancies have been recorded on MAF's and are included in this report.


Francis J. LaRock
Certified Level I
9 March 2001

USS O'BANNON (DD-987)

SHELL CONDITION ASSESSMENT SURVEY INTERIOR AREAS TABLE OF CONTENTS

➤ <u>GENERAL SUMMARY OF CONDITIONS FOUND</u>	4
➤ <u>SURVEY RESULTS</u>	5-6
➤ <u>STEERING GEAR ROOM (6-506-0-E)</u>	7-8
➤ <u>REEL STOREROOM NO. 1 (6-488-3-A)</u>	9-11
➤ <u>CHT ROOM / SHAFT ALLEY (6-346-0-Q)</u>	12
➤ <u>MAIN ENGINE ROOM NO.2 (5-300-0-E)</u>	13-25
➤ <u>AUXILIARY MACHINERY ROOM NO. 1 (5-220-0-E)</u>	26
➤ <u>MAIN ENGINE ROOM NO.1 (5-174-0-E)</u>	27
➤ <u>FORWARD PUMP ROOM / SEWAGE PLANT NO.1 (5-138-0-Q)</u>	28-31
➤ <u>SMALL ARMS MAGAZINE (3-437-2-M)</u>	32-35
➤ <u>GENERATOR ROOM NO.3 (3-426-1-E)</u>	36
➤ <u>MATRIX</u>	37-43

USS O'BANNON (DD-987)
SHELL CONDITION ASSESSMENT SURVEY, INTERIOR AREAS.

A SEMAT I UNDERWATER HULL AND SUPPORTING STRUCTURE SURVEY OF INTERIOR AREAS WAS CONDUCTED ON BOARD **USS O'BANNON (DD-987)** FROM 11/09/01 TO 11/21/01 AT ATLANTIC DRYDOCK CORPORATION JACKSONVILLE FLORIDA.

THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH HULL STRUCTURE MRC 1102 USING A DELMHORST BD 2100 MOISTURE METER AND A KRAUTKRAMER BRANSON MODEL DM2TC ULTRASONIC TEST INSTRUMENT SERIAL NO.00NV8 CALIBRATION DUE DATE 02/22/02. THE PROBES USED WERE KRAUTKRAMER BRANSON'S TC/560, FH2E AND KBA 525.

USS O'BANNON IS CURRENTLY IN A DRYDOCK AVAILABILITY AND UNDERGOING MAJOR REPAIRS.

HISTORIC AREAS OF CORROSION ON **(DD-963)** CLASS SHIPS WERE INSPECTED AND NOTED. THE SURVEY RESULTS PROVIDE ADDITIONAL INFORMATION.

USS O'BANNON (DD-987) STRUCTURAL INSPECTION RESULTS

UNSATISFACTORY AREAS

LOCATION	AREA	RESULTS
(6-506-0-E) STEERING GEAR ROOM JSN # A004	STBD SIDE BETWEEN WF (512-515) BETWEEN STRINGERS (7-8)	APPROXIMATELY 20 SF OF RUST ON SHELL PLATE
(6-488-3-A) REEL STOREROOM NO. 1 JSN # A003	STBD SIDE, AFT OF BHD (488)	APPROXIMATELY 20 SF OF CORROSION.
(5-300-0-E) MAIN ENGINE ROOM 2 JSN # A012	STBD SIDE, STRINGER (14) AT SHELL PLATE BETWEEN FRAME (308-324)	APPROXIMATELY 60 SF OF RUST AND PAINT SEPARATION
(5-138-0-Q) FORWARD PUMP ROOM / SEWAGE PLANT NO. 1 JSN # P155	WEB OF STRINGER (6) APPROXIMATELY 46" AFT OF BHD (138)	APPROXIMATELY 8 SF OF CORROSION.
(3-437-2-M) SMALL ARMS MAGAZINE JSN # A002	BILGE POCKET AT BHD (437) AND BETWEEN WEB FRAMES (448-452)	APPROXIMATELY 30 SF OF CORROSION.

USS O'BANNON (DD-987)**SATISFACTORY AREAS**

LOCATION	SPACE DESIGNATION	MCA SUBMITTED
3-28-01-Q	SONAR EQUIPMENT ROOM 3	YES
3-58-1-M	W/P MAGAZINE NO.1	YES
3-58-2-M	W/P MAGAZINE NO.2	YES
3-62-01-M	5"/54 MAGAZINE NO.1	YES
3-76-1-M	POWDER MAGAZINE NO.1	YES
3-76-2-M	POWDER MAGAZINE NO.2	YES
3-127-0-Q	I/C ROOM NO.1	YES
3-127-2-L	PASSAGEWAY	YES
3-138-3-L	PASSAGEWAY	YES
3-138-6-L	PASSAGEWAY	YES
3-146-0-L	CREW BERTHING	YES
3-260-01-A	SUPPLY DEPARTMENT GENERAL STORES	YES
3-346-02-L	CREW BERTHING	YES
3-382-1-L	OFFICER/CPO W/R W/C SHOWER	YES
3-382-2-A	SUPPLY DEPARTMENT STOREROOM	YES
3-394-1-L	OFFICER/CPO OVERFLOW BERTHING	YES
3-398-0-Q	A/C PLANT/JP-5 PUMP ROOM	YES
3-426-1-E	NO.3 GENERATOR ROOM	CSMP
3-426-2-A	DCPO STOREROOM	YES
3-482-0-M	5"/54 PROJECTILE MAGAZINE	YES
3-491-1-M	W/P MAGAZINE NO.3	YES
3-491-2-M	W/P MAGAZINE NO.4	YES
3-494-0-M	POWDER MAGAZINE NO.3	YES
4-28-0-T	ACCESS TRUNK	YES
4-34-0-Q	SONAR EQUIPMENT ROOM NO.4	YES
4-58-0-E	DOMES EQUIPMENT ROOM	YES
5-34-0-Q	FORWARD EDUCTOR ROOM	YES
5-94-0-C	TOMAHAWK COMPUTER ROOM	YES
5-118-0-C	VERTICAL LAUNCH CONTROL ROOM	YES
5-174-0-E	MAIN ENGINE ROOM NO.1	CSMP
5-220-0-E	AUXILIARY MACHINERY ROOM NO.1	CSMP
5-260-01-E	AUXILIARY MACHINERY ROOM NO.2	YES
6-28-0-T	DOMES ACCESS TRUNK	YES
6-346-0-Q	SHAFT ALLEY/SEWAGE PLANT NO.2	CSMP
6-464-3-Q	NO.2 HPAC ROOM	YES
6-464-4-A	CHEMICAL WARFARE DEFENSE EQUIP. RM	YES
6-476-1-A	STOREROOM	YES
6-476-2-A	STOREROOM	YES
6-482-2-A	STOREROOM	YES

MATERIAL ASSESSMENT FORM

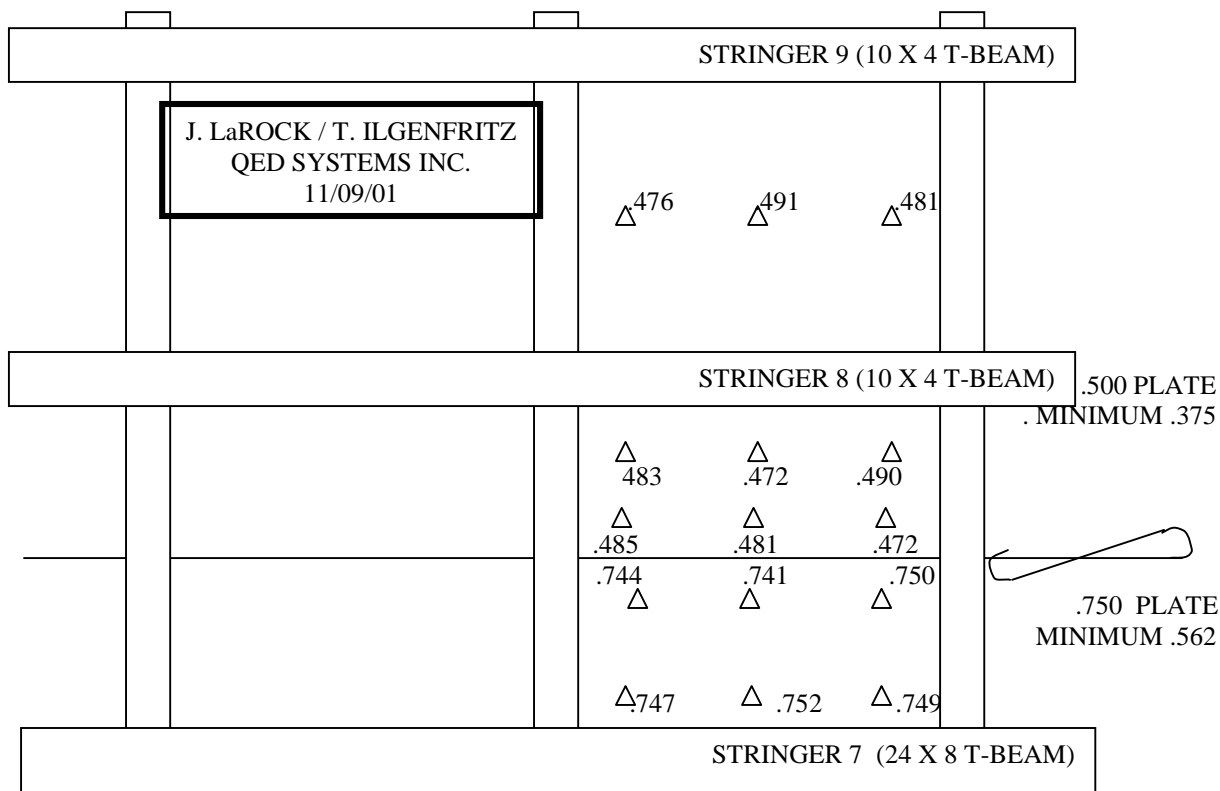
ITEM NUMBER		SHIP USS O'BANNON (DD-987)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A	LOCATION 6-506-0-E	WORK CENTER ERO2	JSN A004
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.9
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 40	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER SEMAT I UNDERWATER HULL ASSESSMENT: STBD SIDE, (6-506-0-E) STEERING GEAR ROOM					
BETWEEN WEB FRAMES (512-515) AND STRINGERS (7-9), SHELL PLATE HAS RUST, HEAVY PAINT SEPARATION.					
U/T READINGS ARE WITHIN THE 25% WASTAGE CRITERIA.					
RECOMMENDED REPAIRS					
RECOMMEND SHIPS FORCE CLEAN AREA TO BARE METAL, PRIME AND PAINT APPROXIMATELY 20 SF					
SSPORT C221 POC: J. BRUCKNER (757) 396-4001 EXT 2186, TPOC: J. LaROCK (757) 490-5047					
CSMP SUMMARY:				TEST#	
BETWEEN WEB FRAMES (512-515) AND STRINGERS (7-9), SHELL PLATE HAS CORROSION				MRC 1102/1	
ROOT CAUSE/AMPLIFICATION:				STEP#	
H1				1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
FIRST CONTACT MEIRS	RATE DC1	SECOND CONTACT BEHERNS	RATE DC3	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN
					TSP

USS O'BANNON (DD-987)
STEERING GEAR ROOM ((6-506-0-E)
 STBD SIDE

WEB FRAME (509)

(512)

(515)



CORROSION, PAINT SEPARATION ON SHELL PLATE BETWEEN WEB FRAMES (512-515)
 AND STRINGERS (7-8), U/T READINGS ARE SATISFACTORY.

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS O'BANNON (DD-987)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A	LOCATION 6-488-3-A	WORK CENTER ERO2	JSN A003
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.9
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 40	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER SEMAT I UNDERWATER HULL ASSESSMENT: (6-488-3-A) REEL STOREROOM NO. 1					
SHELL PLATE AFT OF BHD (488) HAS CORROSION APPROXIMATELY 20 SF. NUMBERS ON BULLSEYE ARE MARKED					
INNOCORRECT.					
RECOMMENDED REPAIRS					
RECOMMEND SHIP'S FORCE CLEAN AREA TO BARE METAL, PRESERVE AND PAINT APPROXIMATELY 20 SF					
SSPORT C221 POC: J. BRUCKNER (757) 396-4001 EXT 2186, TPOC: J. LaROCK (757) 490-5047					
CSMP SUMMARY: SHELL PLATE AFT OF BHD (488) HAS CORROSION.				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT MEIRS		RATE DC1	SECOND CONTACT BEHERNS		RATE DC3
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN
					TSP

USS O'BANNON (DD-987)
REEL STOREROOM NO.1 (6-488-3-A)



CORROSION ON SHELL PLATE AFT OF BHD (488)

This structural drawing illustrates a cross-section of a ship's hull, detailing the arrangement of various structural members and their dimensions. The drawing is organized into several horizontal layers, each labeled with a component name and its dimensions. The layers are as follows:

- Top Layer:** 20.4# PL, 10x4x8.95#T, 12x4x13.11#T, W 15.3# PL, F 40.8# PL, 30.6# PL, L4, L3A, L3, L2, L1, 30.6# PL, W 20.4# PL, CVK.
- Second Layer:** 17.85# PL, 10x4x8.95#T, W 12.75# PL, F 4x3/8 FB, 20.4# PL, 12x4x13.11#T, 12x4x13.11#T, 30.6# PL, W 25.5# PL, 40.8# PL, W 15.3# PL, 12x4x13.11#T, 22.95# PL, 25.5# PL, W 15.3# PL, 12x4x13.11#T, CVK W 20.4# PL.
- Third Layer:** 18 3/8x30.6# FLAT KEEL PL.
- Bottom Layer:** 6-470-1-F, 6-488-1-V, 6-494-1-F, 6-494-1-F.

The drawing also includes various dimensions and labels for specific components, such as 20.4# PL, 17.85# PL, 10x4x8.95#T, 12x4x13.11#T, W 15.3# PL, F 40.8# PL, 30.6# PL, L4, L3A, L3, L2, L1, 30.6# PL, W 20.4# PL, CVK, 18 3/8x30.6# FLAT KEEL PL, and 6-470-1-F, 6-488-1-V, 6-494-1-F. A red box highlights a specific area of the hull structure, likely indicating a point of interest or a specific construction detail.

USS O'BANNON (DD-987)
SHAFT ALLEY (6-346-0-Q)



REPAIRS IN PROGRESS, STARBOARD SIDE SWASH BULKHEAD.

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS O'BANNON (DD-987)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWS 11011	EIC A100	APL X-SYSTEMS	RIN N/L
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A	LOCATION 5-300-0-E	WORK CENTER ERO2	JSN A012
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		10. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		10. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED	.9
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
10. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	10. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY BY 6/1/03	10. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	10. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE	10. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 100	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER SEMAT I UNDERWATER HULL ASSESSMENT: STBD SIDE, (5-300-0-E) MAIN ENGINE ROOM 2					
STRINGER (14), AT SHELL PLATE BETWEEN WEB FRAMES (308 - 324). SHELL AND STRINGER HAVE RUST, HEAVY PAINT SEPARATION. APPROXIMATELY 60 SF OF AREA. U/T READINGS ARE SATISFACTORY, SEE DRAWING.					
RECOMMENDED REPAIR					
RECOMMEND SHIP'S FORCE CLEAN AREA TO BARE METAL, PRIME AND PAINT APPROXIMATELY 60 SF.					
SSPORT C221 POC: J. BRUCKNER (757) 396-4001 EXT 2186, TPOC: J. LaROCK (757) 490-5047					
CSMP SUMMARY:				TEST#	
STRINGERS AND SHELL HAVE RUST AND PAINT SEPARATION.				MRC 1102/1	
ROOT CAUSE/AMPLIFICATION:				STEP#	
H1				1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE	QTY	NSN	COST	
1					
2					
3					
4					
5					
6					
FIRST CONTACT MEIRS	RATE DC1	SECOND CONTACT BEHERNS	RATE DC3	PHONE	
ASSESSOR / ACT / TECH ID#		TD	TL	LOGISTICIAN	TSP
J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.					

USS O'BANNON (DD-987)
MAIN ENGINE ROOM NO. 2 (5-300-0-E)



STARBOARD SIDE, STRINGERS (14-15) AT WEB FRAME (316)

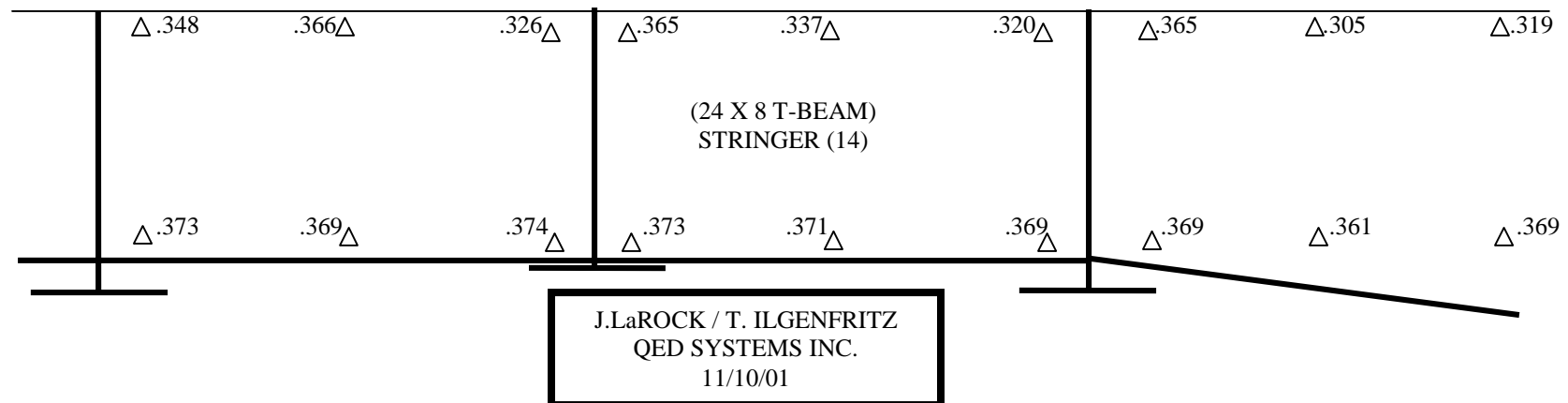
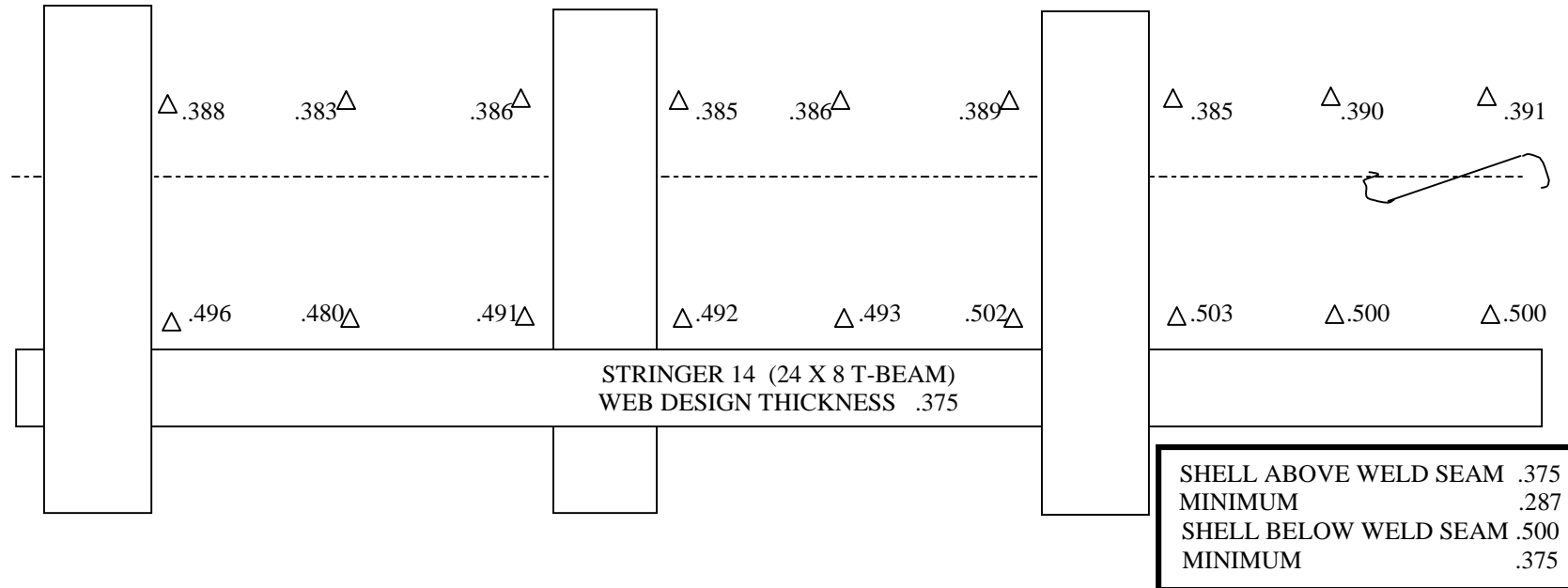


CORROSION ON SHELL AND STRINGER (14) FWD OF WEB FRAME (316), U/T READINGS WERE SATISFACTORY, SEE DRAWING.

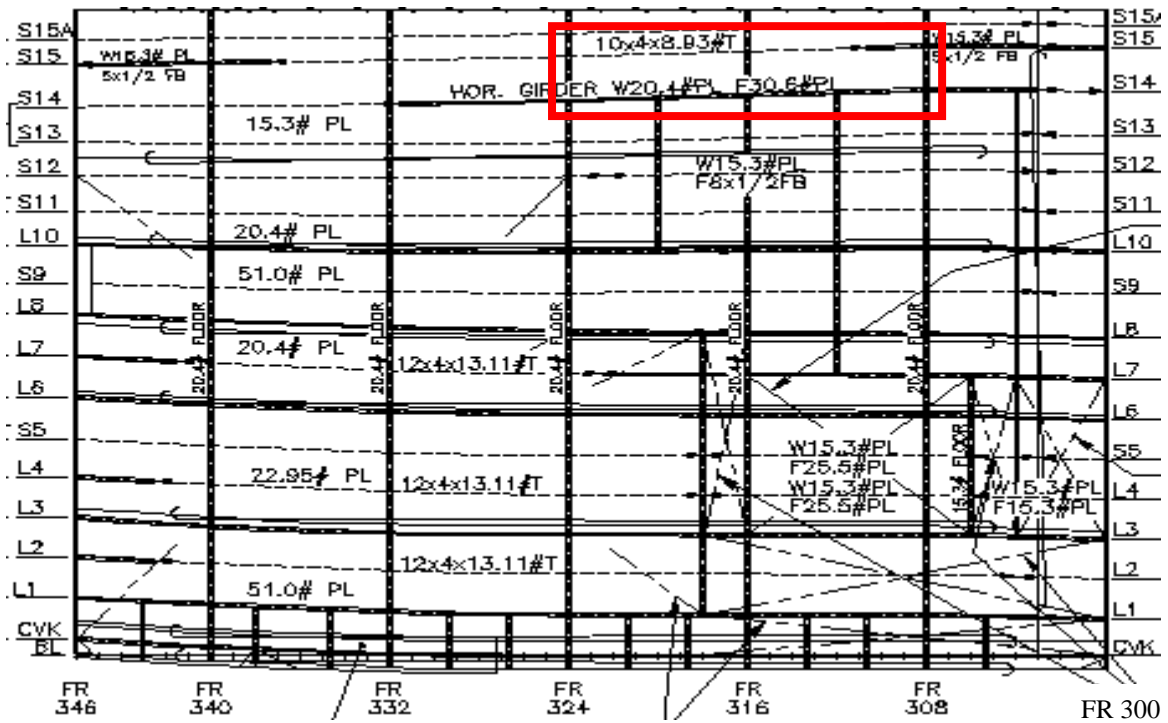
USS O'BANNON (DD-987)
MAIN ENGINE ROOM NO. 2 (5-300-0-E)
STARBOARD SIDE

WEB FRAME (308)

WEB FRAME (316)



MAIN ENGINE ROOM NO.2 (5-300-0-E)



STBD SIDE, MAIN ENGINE ROOM NO.2 (5-300-0-E)
BETWEEN WF (308-324) STRINGER (14)

THE FOLLOWING PAGES CONTAIN ITEMS THAT WERE PREVIOUSLY ENTERED
INTO SHIPS CSMP.

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
UPPER LEVEL



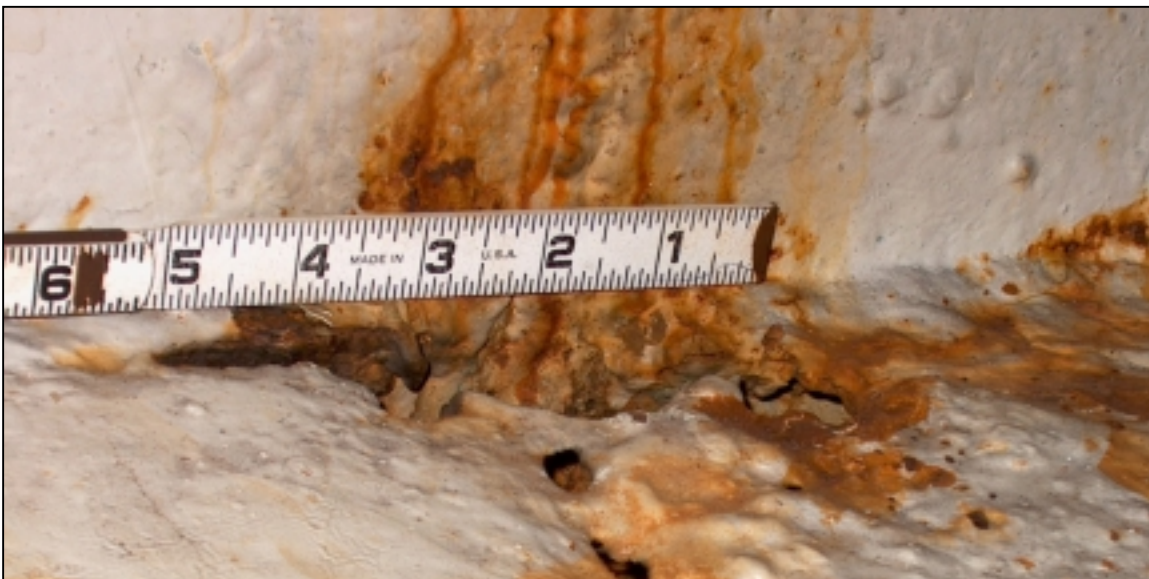
UPPER LEVEL PORT SIDE OF LUBE OIL STORAGE TANK (2-316-6-F)
ARROW INDICATES HOLE IN DECK. JSN # 5787



USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE

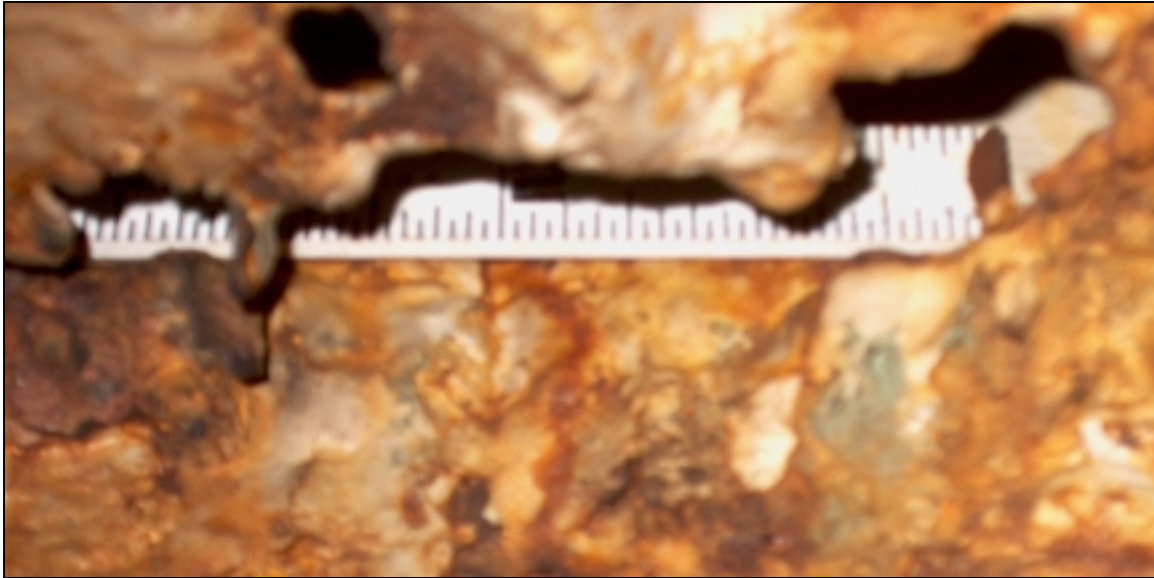


"CONDENSATE CORNER" PORT SIDE, LOWER LEVEL, AT BHD (300).



STRINGER (18). DETERIORATED WEB, APPROXIMATELY 3' AFT OF BHD (300).
JSN # 5780

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE



STRINGER (18) FROM BELOW.



DETERIORATED WEB ON STRINGER (17) AT BHD (300). JSN # 5780

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE



SHELL PLATE AT HORIZONTAL GIRDER (S-16) ARROW INDICATES DEEP
WASHOUT OF WELD.

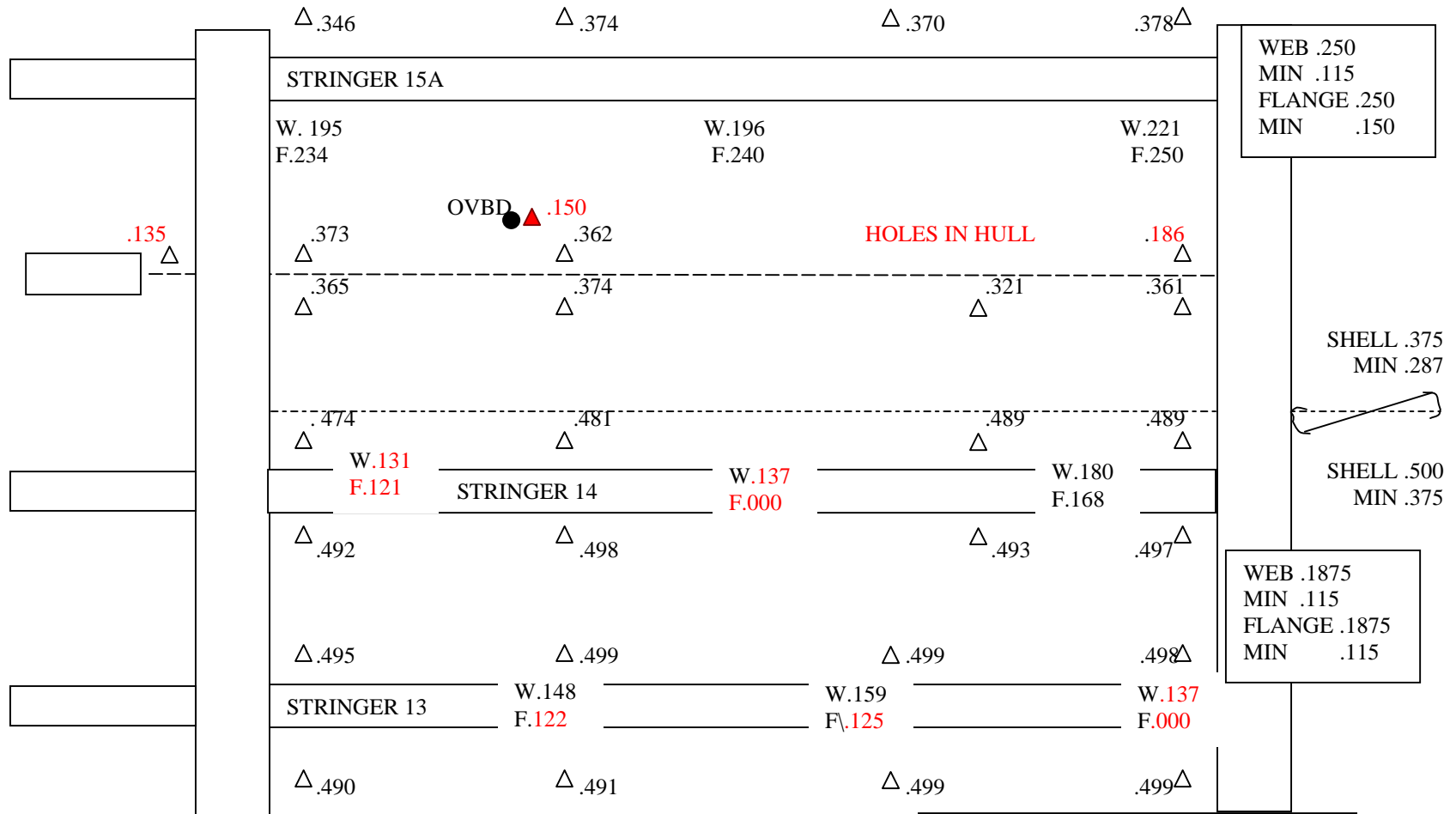


DETERIORATED FLANGE, STRINGER (14) BETWEEN WEB FRAMES (308-316)

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE LOWER LEVEL

WEB FRAME (316)

WEB FRAME (308)



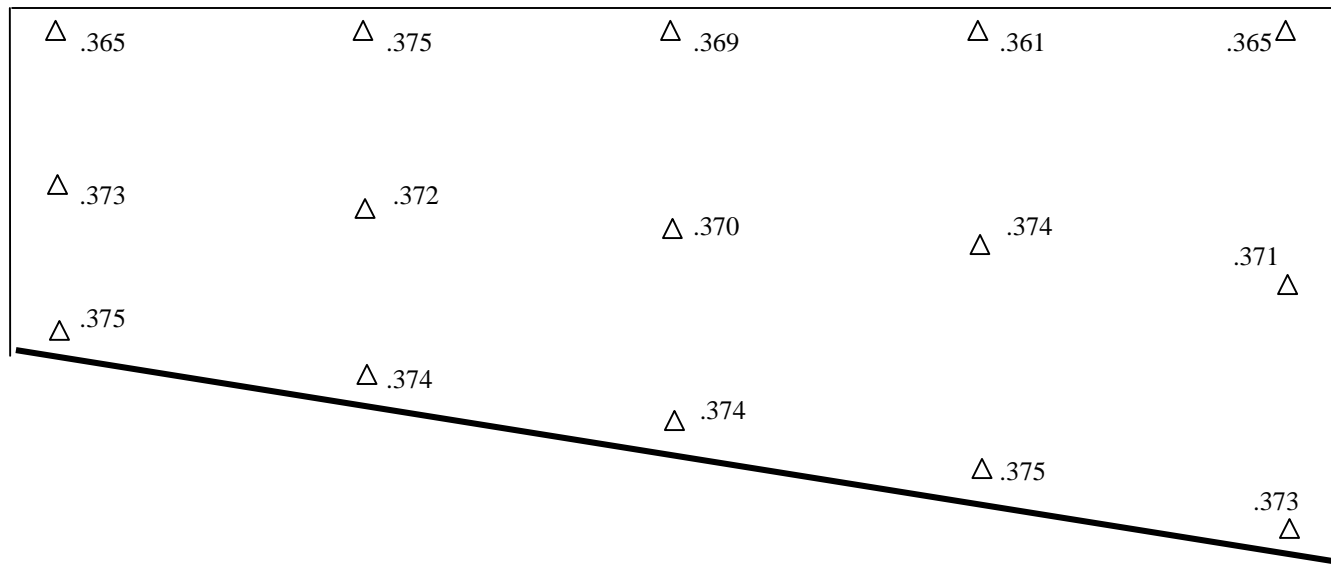
J. LaROCK / T. ILGENFRITZ
 QED SYSTEMS INC.
 11/12/01

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE



DETERIORATED FLANGE, STRINGER (13) AT WEB FRAME (308)

WEB FRAME (308) HORIZONTAL GIRDER (S-16) BHD (300)



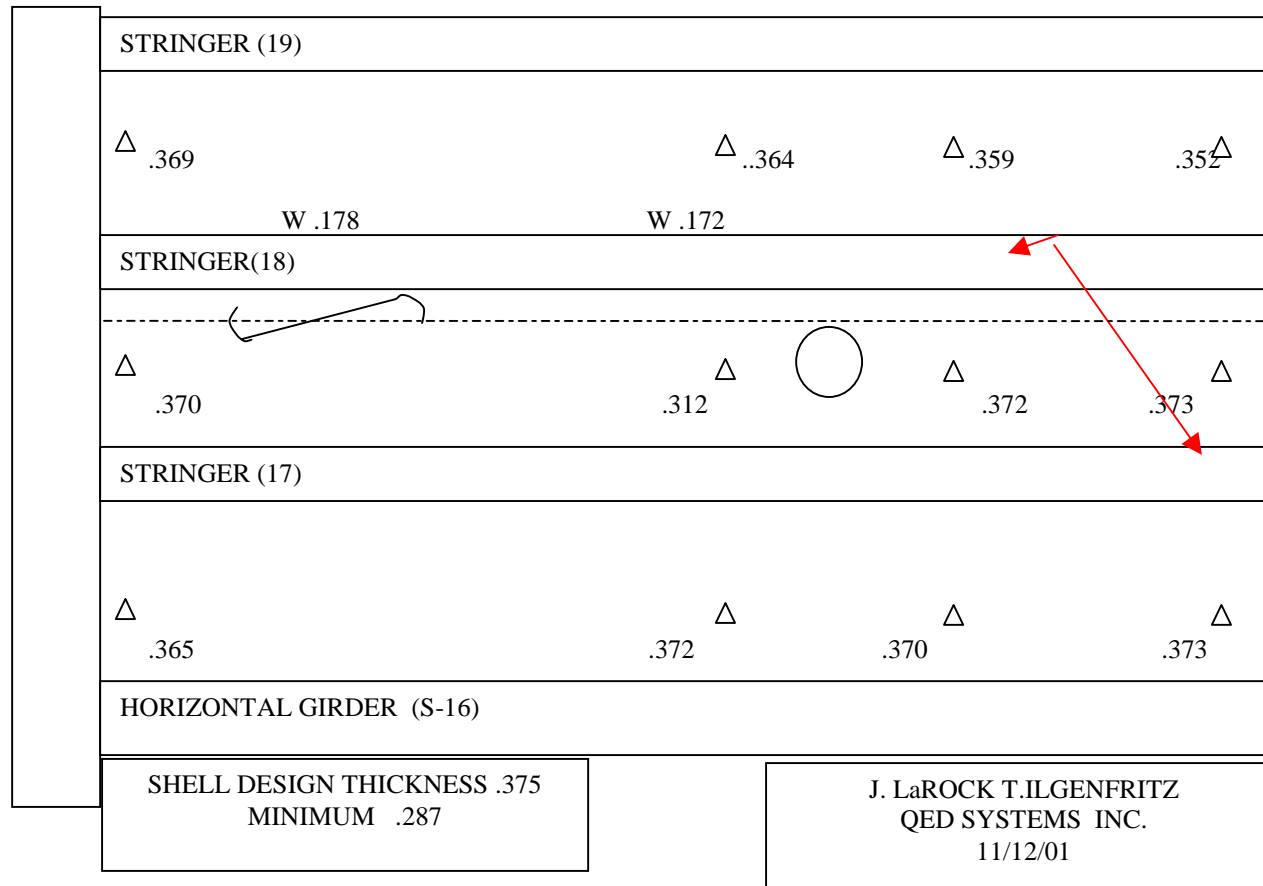
FLANGE DESIGN THICKNESS .500 MINIMUM .375

24

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 2 (5-300-0-E)
PORT SIDE

WEB FRAME(308)

BHD (300)



USS O'BANNON (DD-987)
AUXILIARY MACHINERY ROOM 1 (5-220-0-E)



STARBOARD SIDE, UPPER LEVEL REPAIRS TO TANK TOP / DECK FO TANK (6-220-3-F)



PORT SIDE LOWER LEVEL, SHIPS FORCE HAS REMOVED DECK GRATING FOR REPAIRS
AND PAINTING.

USS O'BANNON (DD-987)
MAIN ENGINE ROOM 1 (5-174-0-E)



PORT SIDE, STRINGER REPAIR IN PROGRESS. JSN #4694



STARBOARD SIDE, STRINGER REPAIR JSN # 4842

MATERIAL ASSESSMENT FORM

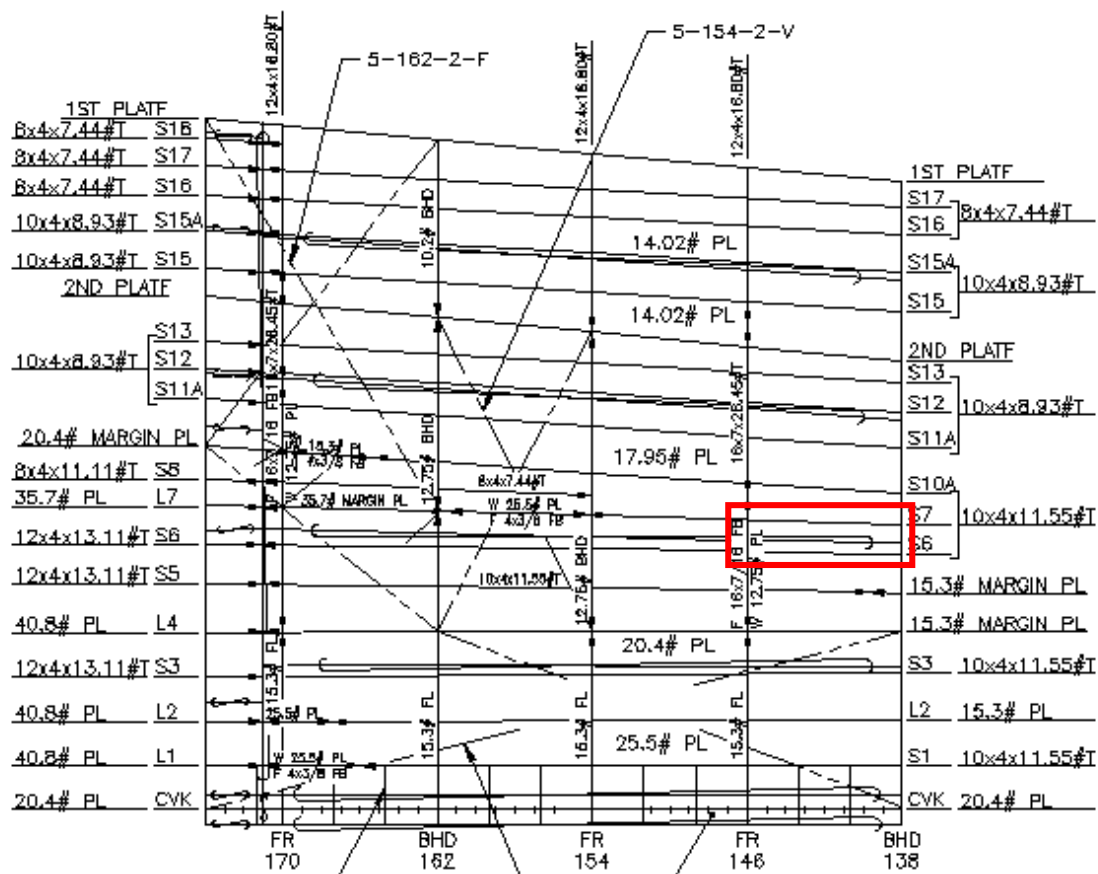
ITEM NUMBER				SHIP USS O'BANNON (DD-987)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWS 11011	EIC A100	APL X-SYSTEMS		RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A		LOCATION 5-138-0-Q	WORK CENTER ERO2	JSN P155	
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			.9
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 200		COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL			1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT I UNDERWATER HULL ASSESSMENT: STBD SIDE (5-138-0-Q) FWD PUMP ROOM NO. 1							
WEB OF STRINGER (6) IS SEVERELY DETERIORATED APPROXIMATELY 46" AFT OF BHD (138). SEE DRAWING FOR U/T READINGS OF SURROUNDING AREA.							
RECOMMENDED REPAIRS: RECOMMEND REPAIR ACTIVITY, REMOVE APPROXIMATELY 8 SF OF HULL BOARD, CUT OUT APPROXIMATELY 3 LF OF STRINGER WEB, REPLACE WITH .250 STEEL. PRIME AND PAINT AREA DISTURBED BY REMOVAL, REPLACE HULL BOARD.							
SSPORT C221 POC: J. BRUCKNER (757) 396-4001 EXT 2130, TPOC: J. LaROCK (757) 490-5047							
CSMP SUMMARY: STRINGER (6) STARBOARD SIDE IS DETERIORATED.						TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1						STEP# 1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:							
PART NO.	NOMENCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT MEIRS		RATE DC1	SECOND CONTACT BEHERNS		RATE DC3	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ				TD	TL	LOGISTICIAN	TSP

USS O'BANNON (DD-987)
FORWARD PUMP ROOM (5-138-0-Q)

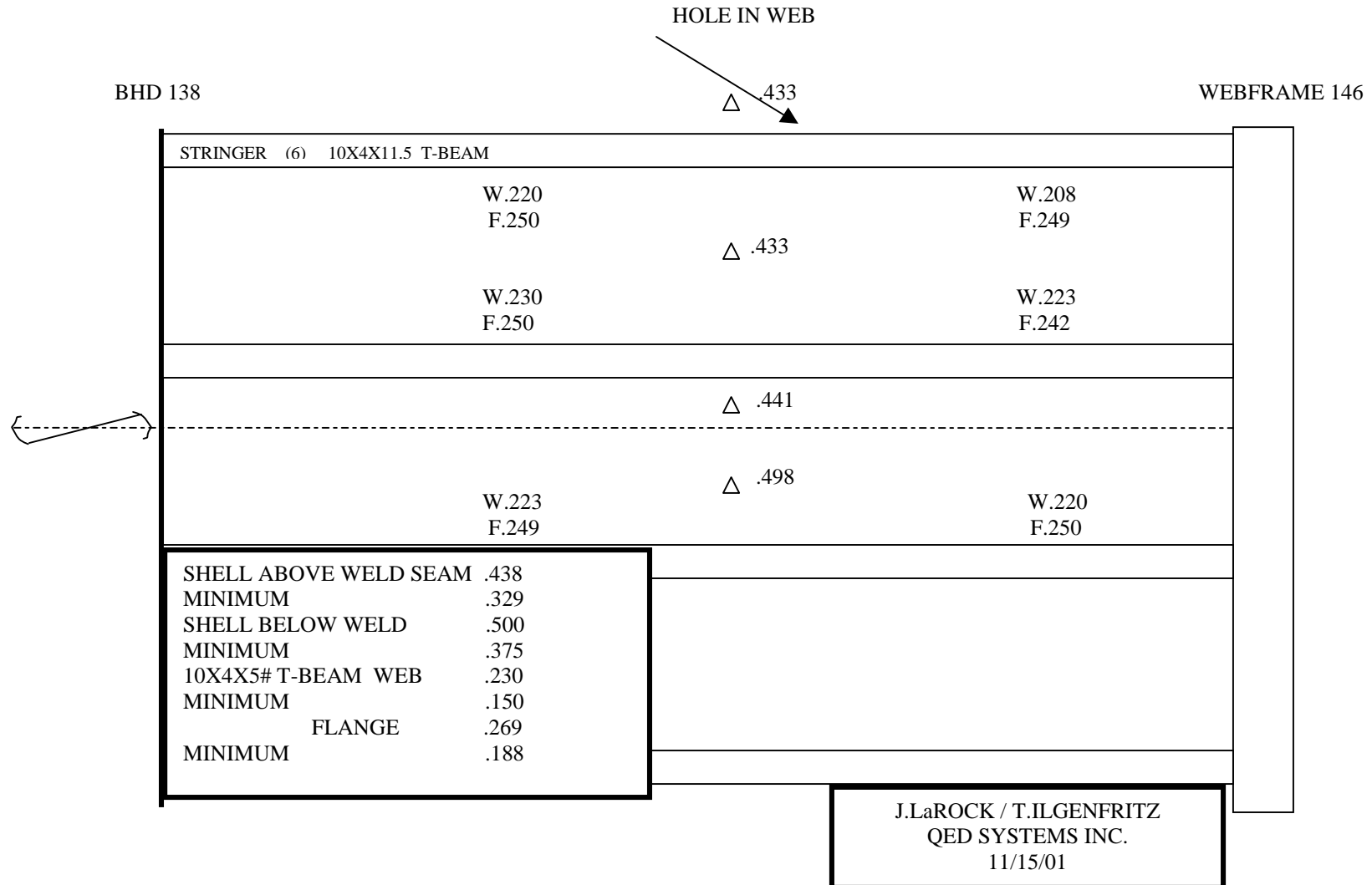


STARBOARD SIDE, WEB OF STRINGER (6) IS SEVERELY DETERIORATED, APPROXIMATELY 46" AFT OF BULKHEAD (138), SEE DRAWING FOR U/T READINGS OF SURROUNDING AREA.

FORWARD PUMP ROOM / SEWAGE PLANT NO. 1 (5-138-0-Q)



USS O'BANNON (DD-987)
FORWARD PUMP ROOM NO. 1 (5-138-0-Q)
STARBOARD SIDE



MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS O'BANNON (DD-987)				
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWBS 11011	EIC A100	APL X-SYSTEMS		RIN N/L		
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A		LOCATION 3-437-2-M	WORK CENTER ERO2	JSN A002		
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC	
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			.9	
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON			
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE			
MAN HRS EXPENDED 2	MAN HRS REMAINING 100	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY			
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE			
DISCREPANCY DESCRIPTION: PER SEMAT I UNDERWATER HULL ASSESSMENT: SMALL ARMS MAGAZINE (3-437-2-M) BILGE POCKET								
BILGE POCKET AT BHD (437) AND BETWEEN WEB FRAMES (448-452) HAS RUST, HEAVY PAINT SEPARATION. U/T READINGS ARE SATISFACTORY SEE DRAWING.								
RECOMMENDED REPAIRS								
RECOMMEND SHIP'S FORCE CLEAN AREA TO BARE METAL, PRESERVE AND PAINT. APPROXIMATELY 30 SF.								
SSPORT C221 POC: J. BRUCKNER (757) 396-4001 EXT 2186, TPOC: J. LaROCK (757) 490-5047								
CSMP SUMMARY:						TEST#		
BILGE POCKET HAS RUST AND PAINT SEPARATION.						MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1						STEP#		
SYSTEM LEVEL IMPACT:						1,2,3,4 & 5		
PART NO.	NOMENCLATURE			QTY	NSN		COST	
1								
2								
3								
4								
5								
6								
FIRST CONTACT MEIRS		RATE DC1	SECOND CONTACT BEHERNS		RATE DC3	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP	

USS O'BANNON (DD-987)
SMALL ARMS MAGAZINE (3-437-2-M)

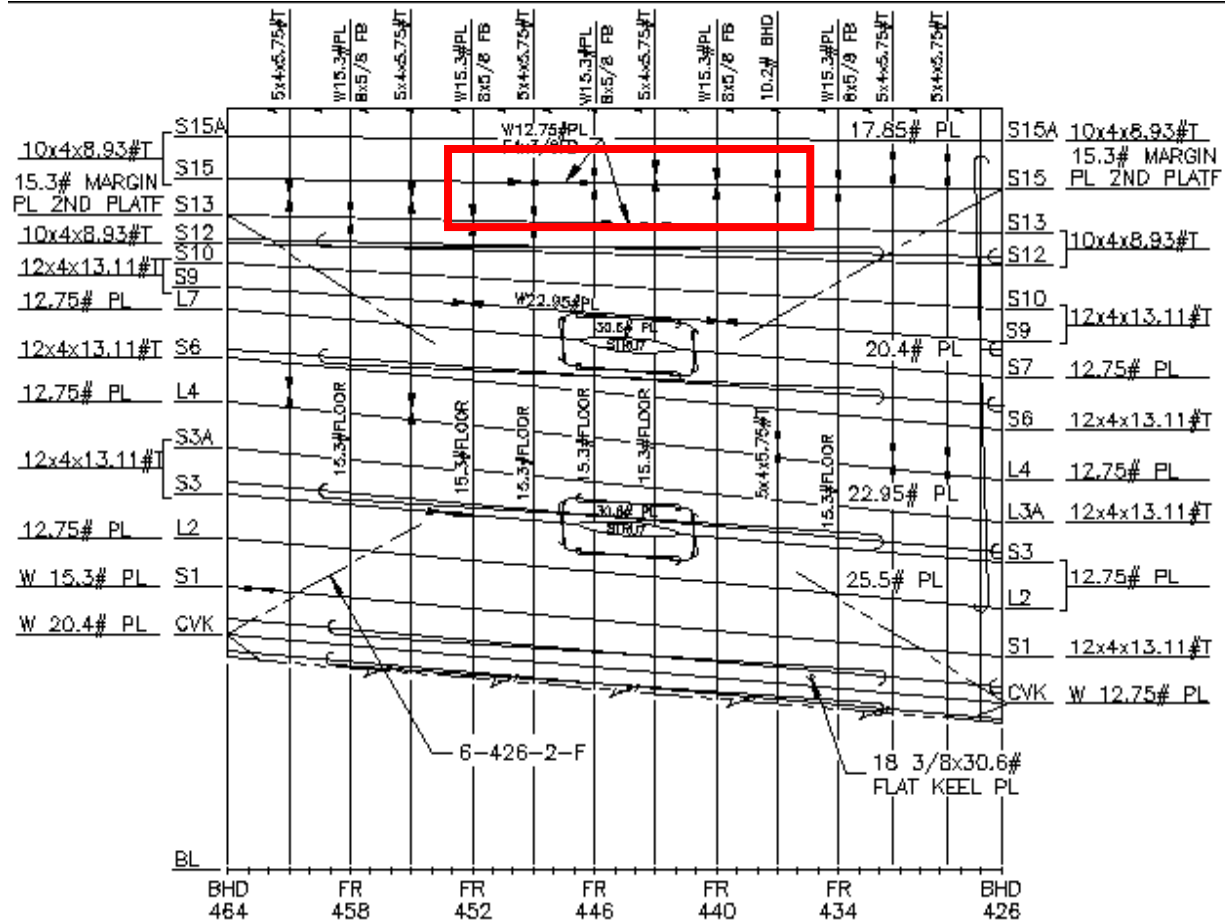


CORROSION IN BILGE POCKET, AFT OF BHD (437), U/T READINGS ARE SATISFACTORY. SEE DRAWING.



BILGE POCKET AFT OF WEB FRAME (448)

SMALL ARMS MAGAZINE (3-437-2-M)



USS O'BANNON (DD-987)
SMALL ARMS MAGAZINE (3-437-2-M)

WEB FRAME 452				WEB FRAME 446		WEB FRAME 440		BHD 437
SHELL DESIGN THICKNESS .438								
MINIMUM .328								
MARGIN PLATE .375								
MINIMUM .287								
Δ .437	.438Δ	Δ .438	.438Δ			Δ .442	.440Δ	.436Δ
Δ .436	.434Δ	Δ .437	.436Δ			Δ .437	.438Δ	.438Δ
Δ .370	.372Δ	Δ .373	.361Δ			Δ .361	.371Δ	.369Δ
Δ .375	.376Δ	Δ .375	.372Δ			Δ .375	.375Δ	.377Δ

J. LaROCK / T. ILGENFRITZ
 QED SYSTEMS INC.
 11/09/01

USS O'BANNON (DD-987)
GENERATOR ROOM NO. 3 (3-426-1-E)



STRINGER REPAIRS JSN # 5545



DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
2½ -10-0-A	N	N	N	N	SPACE NOT ASSESSABLE GAS FREE REQUIRED
2½ -20-0-A	N	N	N	N	SPACE NOT ASSESSABLE GAS FREE REQUIRED
3-28-01-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-58-1-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-58-2-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-62-01-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-76-1-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-76-2-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-94-1-Q	N	N	N	N	GAS FREE REQUIRED
3-94-2-Q	N	N	N	N	GAS FREE REQUIRED

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
3-127-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-127-2-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-138-3-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-138-6-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-146-0-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-260-01-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-346-02-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-382-2-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-382-3-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-398-0-Q	Y	Y	Y	DECK AND PORT BHD AROUND A/C PLANT	SPACE 100% ASSESSABLE

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
3-426-1-E	Y	Y	Y	STBD SHELL AND BILGE AREA	SPACE 100% ASSESSABLE
3-426-2-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-437-2-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3½-464-0-T	Y	N	Y	N	SPACE 100% ASSESSABLE
4-28-0-T	Y	N	Y	N	SPACE 100% ASSESSABLE
4-34-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
4-58-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
5-E-0-V	N	N	N	N	GAS FREE REQUIRED
5-34-0-Q	Y	Y	Y	ENTIRE BILGE AREA	SPACE 100% ASSESSABLE
5-94-0-C	Y	Y	Y	N	SPACE 100% ASSESSABLE
5-118-0-C	Y	Y	Y	N	SPACE 100% ASSESSABLE
5-128-0-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
5-138-0-Q	Y	Y	Y	FOUNDATIONS IN BILGE AREA, PITSWORD FR (144) PORT SIDE	SPACE 100% ASSESSABLE
5-154-3-V	N	N	N	N	GAS FREE REQUIRED
5-154-4-V	N	N	N	N	GAS FREE REQUIRED
5-174-0-E	Y	Y	Y	TANK TOP IN WAY OF ACOUSTIC TILES. LL STBD SIDE STIFFNERS FROM TANK TOP UP TO BOTTOM SIDE OF U/L GRATING.	SPACE 100% ASSESSABLE

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
5-174-0-E	Y	Y	Y	EQUIPMENT FOUNDATIONS IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE
5-220-0-E	Y	Y	Y	L/L TANK TOP. U/L UNDER A/C UNITS. EQUIPMENT FOUNDATIONS IN BILGE AREA. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE
5-260-01-E	Y	Y	Y	LOWER PORTION OF ESCAPE TRUNK BHDS. FOUNDATIONS IN BILGE AREA. ENTIRE TANK TOP IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL	SPACE 100% ASSESSABLE
5-300-0-E	Y	Y	Y	L/L PORT SIDE STIFFENERS FROM THE TANK TOP UP TO THE BOTTOM SIDE OF THE U/L GRATING. TANK TOP IN WAY OF ACOUSTIC TILES. EQUIPMENT FOUNDATIONS IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
6-8-0-T	N	N	N	N	UNASSESSABLE
6½-11-0-V	N	N	N	N	GAS FREE REQUIRED
6-28-0-T	Y	N	Y	N	GAS FREE REQUIRED
6-34-0-V	N	N	N	N	GAS FREE REQUIRED
6-201-2-V	N	N	N	N	GAS FREE REQUIRED
6-300-3-V	N	N	N	N	GAS FREE REQUIRED
6-346-0-Q	Y	Y	Y	PAINT FAILURE CORROSION AND SATURATED INSULATION IN THE PARTIALLY ENCLOSED AREAS OUTBOARD OF SHAFTS	AREA 100% ASSESSABLE
6-379-2-V	N	N	N	N	GAS FREE REQUIRED
6-464-3-Q	Y	Y	Y	SHELL AND STIFFNERS AROUND H-PAC OVBD DISCHARGE	AREA 100% ASSESSABLE

DD 963 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
6-464-4-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-476-1-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-476-2-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-482-2-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-488-3-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-506-0-E	Y	Y	Y	N	AREA 100% ASSESSABLE